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SEQUENCE LISTING

<110> Bayer AG, BHC

<120> Method for inhibiting the replication of herpesviruses

<130> Le A 36 269

<160> 1

<170> PatentIn version 3.1

<210> 1

<211> .1370

<212> PRT

<213> Human cytomegalovirus

<400> 1

Met Glu Asn Trp Ser Ala Leu Glu Leu Leu Pro Lys Val Gly Ile Pro

1 5 10 15

Thr Asp Phe Leu Thr His Val Lys Thr Ser Ala Gly Glu Glu Met Phe

20 25 30

Glu Ala Leu Arg Ile Tyr Tyr Gly Asp Asp Pro Glu Arg Tyr Asn Ile

35 40 45

His Phe Glu Ala Ile Phe Gly Thr Phe Cys Asn Arg Leu Glu Trp Val

50 55 60

Tyr Phe Leu Thr Ser Gly Leu Ala Ala Ala His Ala Ile Lys Phe

65 70 75 80

His Asp Leu Asn Lys Leu Thr Thr Gly Lys Met Leu Phe His Val Gln

85 90 95

Val Pro Arg Val Ala Ser Gly Ala Gly Leu Pro Thr Ser Arg Gln Thr

100 105 110

Thr Ile Met Val Thr Lys Tyr Ser Glu Lys Ser Pro Ile Thr Ile Pro

115 120 125

Phe Glu Leu Ser Ala Ala Cys Leu Thr Tyr Leu Arg Glu Thr Phe Glu

130 135 140

Gly Thr Ile Leu Asp Lys Ile Leu Asn Val Glu Ala Met His Thr Val

145 150 155 160

Leu Arg Ala Leu Lys Asn Thr Ala Asp Ala Met Glu Arg Gly Leu Ile

165 170 175

His Ser Phe Leu Gln Thr Leu Leu Arg Lys Ala Pro Pro Tyr Phe Val

180 185 190

Val Gln Thr Leu Val Glu Asn Ala Thr Leu Ala Arg Gln Ala Leu Asn

195 200 205

Arg Ile Gln Arg Ser Asn Ile Leu Gln Ser Phe Lys Ala Lys Met Leu

210 215 220

Ala Thr Leu Phe Leu Leu Asn Arg Thr Arg Asp Arg Asp Tyr Val Leu

	225		230		235		240
	Lys Phe Leu Thr Arg Leu Ala Glu Ala Ala Thr Asp Ser Ile Leu Asp						
		245		250		255	
5	Asn Pro Thr Thr Tyr Thr Thr Ser Ser Gly Ala Lys Ile Ser Gly Val						
		260		265		270	
	Met Val Ser Thr Ala Asn Val Met Gln Ile Ile Met Ser Leu Leu Ser						
		275		280		285	
	Ser His Ile Thr Lys Glu Thr Val Ser Ala Pro Ala Thr Tyr Gly Asn						
		290		295		300	
10	Phe Val Leu Ser Pro Glu Asn Ala Val Thr Ala Ile Ser Tyr His Ser						
		305		310		315	
	Ile Leu Ala Asp Phe Asn Ser Tyr Lys Ala His Leu Thr Ser Gly Gln						
		325		330		335	
15	Pro His Leu Pro Asn Asp Ser Leu Ser Gln Ala Gly Ala His Ser Leu						
		340		345		350	
	Thr Pro Leu Ser Met Asp Val Ile Arg Leu Gly Glu Lys Thr Val Ile						
		355		360		365	
	Met Glu Asn Leu Arg Arg Val Tyr Lys Asn Thr Asp Thr Lys Asp Pro						
		370		375		380	
20	Leu Glu Arg Asn Val Asp Leu Thr Phe Phe Phe Pro Val Gly Leu Tyr						
		385		390		395	
	Leu Pro Glu Asp Arg Gly Tyr Thr Thr Val Glu Ser Lys Val Lys Leu						
		405		410		415	
	Asn Asp Thr Val Arg Asn Ala Leu Pro Thr Thr Ala Tyr Leu Leu Asn						
25		420		425		430	
	Arg Asp Arg Ala Val Gln Lys Ile Asp Phe Val Asp Ala Leu Lys Thr						
		435		440		445	
	Leu Cys His Pro Val Leu His Glu Pro Ala Pro Cys Leu Gln Thr Phe						
		450		455		460	
30	Thr Glu Arg Gly Pro Pro Ser Glu Pro Ala Met Gln Arg Leu Leu Glu						
		465		470		475	
	Cys Arg Phe Gln Gln Glu Pro Met Gly Gly Ala Ala Arg Arg Ile Pro						
		485		490		495	
	His Phe Tyr Arg Val Arg Arg Glu Val Pro Arg Thr Val Asn Glu Met						
35		500		505		510	
	Lys Gln Asp Phe Val Val Thr Asp Phe Tyr Lys Val Gly Asn Ile Thr						
		515		520		525	
	Leu Tyr Thr Glu Leu His Pro Phe Phe Asp Phe Thr His Cys Gln Glu						
		530		535		540	
40	Asn Ser Glu Thr Val Ala Leu Cys Thr Pro Arg Ile Val Ile Gly Asn						
		545		550		555	
	Leu Pro Asp Gly Leu Ala Pro Gly Pro Phe His Glu Leu Arg Thr Trp						
		565		570		575	
	Glu Ile Met Glu His Met Arg Leu Arg Pro Pro Pro Asp Tyr Glu Glu						
45		580		585		590	
	Thr Leu Arg Leu Phe Lys Thr Thr Val Thr Ser Pro Asn Tyr Pro Glu						
		595		600		605	

	Leu	Cys	Tyr	Leu	Val	Asp	Val	Leu	Val	His	Gly	Asn	Val	Asp	Ala	Phe
	610						615					620				
	Leu	Leu	Ile	Arg	Thr	Phe	Val	Ala	Arg	Cys	Ile	Val	Asn	Met	Phe	His
	625					630					635				640	
5	Thr	Arg	Gln	Leu	Leu	Val	Phe	Ala	His	Ser	Tyr	Ala	Leu	Val	Thr	Leu
				645						650					655	
	Ile	Ala	Glu	His	Leu	Ala	Asp	Gly	Ala	Leu	Pro	Pro	Gln	Leu	Leu	Phe
				660					665					670		
10	His	Tyr	Arg	Asn	Leu	Val	Ala	Val	Leu	Arg	Leu	Val	Thr	Arg	Ile	Ser
		675					680						685			
	Ala	Leu	Pro	Gly	Leu	Asn	Asn	Gly	Gln	Leu	Ala	Glu	Glu	Pro	Leu	Ser
		690					695					700				
	Ala	Tyr	Val	Asn	Ala	Leu	His	Asp	His	Arg	Leu	Trp	Pro	Pro	Phe	Val
	705				710					715					720	
15	Thr	His	Leu	Pro	Arg	Asn	Met	Glu	Gly	Val	Gln	Val	Val	Ala	Asp	Arg
				725					730					735		
	Gln	Pro	Leu	Asn	Pro	Ala	Asn	Ile	Glu	Ala	Arg	His	His	Gly	Val	Ser
		740					745						750			
20	Asp	Val	Pro	Arg	Leu	Gly	Ala	Met	Asp	Ala	Asp	Glu	Pro	Leu	Phe	Val
		755					760					765				
	Asp	Asp	Tyr	Arg	Ala	Thr	Asp	Asp	Glu	Trp	Thr	Leu	Gln	Lys	Val	Phe
		770				775					780					
	Tyr	Leu	Cys	Leu	Met	Pro	Ala	Met	Thr	Asn	Asn	Arg	Ala	Cys	Gly	Leu
	785				790					795					800	
25	Gly	Leu	Asn	Leu	Lys	Thr	Leu	Leu	Val	Asp	Leu	Phe	Tyr	Arg	Pro	Ala
			805						810					815		
	Phe	Leu	Leu	Met	Pro	Ala	Ala	Thr	Ala	Val	Ser	Thr	Ser	Gly	Thr	Thr
			820					825					830			
30	Ser	Lys	Glu	Ser	Thr	Ser	Gly	Val	Thr	Pro	Glu	Asp	Ser	Ile	Ala	Ala
		835					840					845				
	Gln	Arg	Gln	Ala	Val	Gly	Glu	Met	Leu	Thr	Glu	Leu	Val	Glu	Asp	Val
		850					855				860					
	Ala	Thr	Asp	Ala	His	Thr	Pro	Leu	Leu	Gln	Ala	Cys	Arg	Glu	Leu	Phe
	865				870					875					880	
35	Leu	Ala	Val	Gln	Phe	Val	Gly	Glu	His	Val	Lys	Val	Leu	Glu	Val	Arg
			885						890				895			
	Ala	Pro	Leu	Asp	His	Ala	Gln	Arg	Gln	Gly	Leu	Pro	Asp	Phe	Ile	Ser
		900						905					910			
40	Arg	Gln	His	Val	Leu	Tyr	Asn	Gly	Cys	Cys	Val	Val	Thr	Ala	Pro	Lys
		915					920						925			
	Thr	Leu	Ile	Glu	Tyr	Ser	Leu	Pro	Val	Pro	Phe	His	Arg	Phe	Tyr	Ser
		930					935				940					
	Asn	Pro	Thr	Ile	Cys	Ala	Ala	Leu	Ser	Asp	Asp	Ile	Lys	Arg	Tyr	Val
	945				950					955					960	
45	Thr	Glu	Phe	Pro	His	Tyr	His	Arg	His	Asp	Gly	Gly	Phe	Pro	Leu	Pro
				965						970				975		
	Thr	Ala	Phe	Ala	His	Glu	Tyr	His	Asn	Trp	Leu	Arg	Ser	Pro	Phe	Ser

	980	985	990
	Arg Tyr Ser Ala Thr Cys Pro Asn Val Leu His Ser Val Met Thr Leu		
	995	1000	1005
5	Ala Ala Met Leu Tyr Lys Ile Ser Pro Val Ser Leu Val Leu Gln		
	1010	1015	1020
	Thr Lys Ala His Ile His Pro Gly Phe Ala Leu Thr Ala Val Arg		
	1025	1030	1035
	Thr Asp Thr Phe Glu Val Asp Met Leu Leu Tyr Ser Gly Lys Ser		
	1040	1045	1050
10	Cys Thr Ser Val Ile Ile Asn Asn Pro Ile Val Thr Lys Glu Glu		
	1055	1060	1065
	Arg Asp Ile Ser Thr Thr Tyr His Val Thr Gln Asn Ile Asn Thr		
	1070	1075	1080
	Val Asp Met Gly Leu Gly Tyr Thr Ser Asn Thr Cys Val Ala Tyr		
15	1085	1090	1095
	Val Asn Arg Val Arg Thr Asp Met Gly Val Arg Val Gln Asp Leu		
	1100	1105	1110
	Phe Arg Val Phe Pro Met Asn Val Tyr Arg His Asp Glu Val Asp		
	1115	1120	1125
20	Arg Trp Ile Arg His Ala Ala Gly Val Glu Arg Pro Gln Leu Leu		
	1130	1135	1140
	Asp Thr Glu Thr Ile Ser Met Leu Thr Phe Gly Ser Met Ser Glu		
	1145	1150	1155
	Arg Asn Ala Ala Ala Thr Val His Gly Gln Lys Ala Ala Cys Glu		
25	1160	1165	1170
	Leu Ile Leu Thr Pro Val Thr Met Asp Val Asn Tyr Phe Lys Ile		
	1175	1180	1185
	Pro Asn Asn Pro Arg Gly Arg Ala Ser Cys Met Leu Ala Val Asp		
	1190	1195	1200
30	Pro Tyr Asp Thr Glu Ala Ala Thr Lys Ala Ile Tyr Asp His Arg		
	1205	1210	1215
	Glu Ala Asp Ala Gln Thr Phe Ala Ala Thr His Asn Pro Trp Ala		
	1220	1225	1230
	Ser Gln Ala Gly Cys Leu Ser Asp Val Leu Tyr Asn Thr Arg His		
35	1235	1240	1245
	Arg Glu Arg Leu Gly Tyr Asn Ser Lys Phe Tyr Ser Pro Cys Ala		
	1250	1255	1260
	Gln Tyr Phe Asn Thr Glu Glu Ile Ile Ala Ala Asn Lys Thr Leu		
	1265	1270	1275
40	Phe Lys Thr Ile Asp Glu Tyr Leu Leu Arg Ala Lys Asp Cys Ile		
	1280	1285	1290
	Arg Gly Asp Thr Asp Thr Gln Tyr Val Cys Val Glu Gly Thr Glu		
	1295	1300	1305
	Gln Leu Ile Glu Asn Pro Cys Arg Leu Thr Gln Glu Ala Leu Pro		
45	1310	1315	1320
	Ile Leu Ser Thr Thr Thr Leu Ala Leu Met Glu Thr Lys Leu Lys		
	1325	1330	1335

Gly Gly	Ala Gly	Ala Phe	Ala Thr	Ser Glu	Thr His	Phe Gly	Asn
1340			1345			1350	
Tyr Val	Val Gly	Glu Ile	Ile Pro	Leu Gln	Gln Ser	Met Leu	Phe
1355			1360			1365	
5 Asn Ser							
1370							